

Attachment 3

**Verizon Telephone Companies, FCC Tariff No. 1,
Access Service, Section 16.5, IP (Internet Protocol)
Routing Service**

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service16.5.1 Service Description

The Telephone Company's IP (Internet Protocol) Routing Service, IPRS, provides for the collection, concentration and management of the customer's data traffic within a LATA. IPRS consists of network routers located at LATA hub sites that will collect the customer's end user data traffic and concentrate it for connection and transport over the Telephone Company's Packet Data Service to a customer's designated location.

The customer has the option of utilizing, as a feature of IPRS, Single Number Routing in lieu of local telephone numbers, which are included as part of IPRS. This option provides for all end users in a defined geographic area (i.e., a LATA) to have access to the customer via one specialized telephone number. The end user can initiate a call within the service area to the customer, and the call will be treated as a local call by the Telephone Company for the connection and duration of the call. This option is part of the standard IPRS offering and is included in the rates and charges for IPRS at no additional charge.

The following two alternatives are offered to the customer under this option:

1. The Telephone Company will assign a Single Number Routing telephone number from a 500 NPA; or
2. The customer can provide the Telephone Company with its own 555-XXXX telephone number acquired from the North American Numbering Plan Administration.

For those customers that opt for Single Number Routing, the Telephone Company will provision either a single 500 or 555 telephone number. If the customer requests additional 500 or 555 telephone numbers, special assembly charges will apply.

IPRS provides two types of ports for the collection of end user data traffic. The port type(s) is/are determined by the method(s) chosen by the customer for access to its end user(s). The two port types are:

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
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ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.1 Service Description (Cont'd)

- 1) Dial-up Port
- 2) IPRS DS1/1.544 Mbps Port* (C)

The Dial-up Port type is intended for use with a single computer connection and not for connection to a Local Area Network (LAN).

IPRS does not include the end user access service. End user services and facilities are available from this and other public telephone network tariffs.

IPRS requires the use of RADIUS (Remote Authentication Dial-In User Service), a network security protocol, for the customer's authentication and authorization of its dial-up end user(s). See Section 16.5.2 following for technical references.

Maintenance and upgrades for IPRS are performed during the hours of 11:00 p.m. and 8:00 a.m. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive or out-of-service condition. The amount of time that this scheduled out-of-service condition will exist is called a "maintenance window." The Telephone Company will provide the customer notice prior to the maintenance window and will work cooperatively with the customer to minimize service disruption. Maintenance window activity could be scheduled for consecutive days.

16.5.2 Technical Specifications

IPRS is provided in compliance with standards established by the Internet Architecture Board as stated in the following publications:

STD 0001, Internet Official Protocol Standards; J Postel, Editor, issued June 1997.

RFC 2138, Remote Authentication Dial-In User Service (RADIUS); C Rigney, A. Rubens, W. Simpson, S. Wilens., issued April 1997.

- * Effective September 15, 2001, the IPRS DS1/1.544 Mbps Port will no longer be available for new service requests. (N)
(N)

(This page filed under Transmittal No. 88)

Issued: August 31, 2001

Effective: September 15, 2001

Vice President
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ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.3 Terms and Conditions

(A) IPRS is a hubbed service. IPRS wire centers are designated in (B) following.

(B) LATA	HUB Wire Center
Washington	Arlington
Washington	Gaithersburg
Washington	Reston - Fox Mills
Washington	Waldorf
Washington	Washington, D.C.
Baltimore	Columbia
Baltimore	Crofton
Baltimore	Westminster
Baltimore	Towson
Roanoke	Roanoke
Roanoke	Blacksburg
Roanoke	Norton
Salisbury	Salisbury
Culpeper	Culpeper
Culpeper	Fredericksburg
Culpeper	Leesburg
Hagerstown	Fredrick
Hagerstown	Hagerstown
Hagerstown	Martinsburg
Norfolk	Aberdeen
Richmond	Chester
Philadelphia	Conshohocken
Philadelphia	Ardmore
Philadelphia	Springfield
Philadelphia	Hatboro
Philadelphia	Newtown
Philadelphia	Doylestown
Philadelphia	Pottstown
Philadelphia	Exton
Philadelphia	West Chester
Philadelphia	Reading
Philadelphia	Market
Philadelphia	Mountainville
Philadelphia	Perkasie
Altoona	Altoona
Altoona	Barnesboro
Altoona	State College
Lynchburg	Church Street

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.3 Terms and Conditions (Cont'd)

(B) (Cont'd)

<u>LATA</u>	<u>HUB Wire Center</u>
Pittsburgh	Downtown
Pittsburgh	Uniontown
Pittsburgh	Bethel Park
Pittsburgh	Washington
Pittsburgh	Greenburg
Pittsburgh	Robinson Township
Pittsburgh	Perrysville
Pittsburgh	Oakmont
Pittsburgh	Monroeville
Pittsburgh	Beaver Falls
Capital	Harrisburg
Capital	Lebanon
Capital	Millersville
Capital	Newark
Capital	Dover
Capital	Georgetown
North Jersey	New Brunswick
North Jersey	Toms River
North Jersey	Lakewood
North Jersey	Spring Lake
North Jersey	Middletown
North Jersey	Jamesburg
North Jersey	Woodbridge
North Jersey	Plainfield
North Jersey	Bernardsville
North Jersey	Madison
North Jersey	Newark 2
North Jersey	Little Falls
North Jersey	Cliffside park
North Jersey	Closter
North Jersey	Ramsey
North Jersey	West Milford
North Jersey	Succasunna
North Jersey	Washington
Delaware Valley	Collingswood
Delaware Valley	Camden
Delaware Valley	Ewing
Delaware Valley	Burlington
Delaware Valley	Mount Holly
Delaware Valley	Wenonah
Delaware Valley	Vineland
Atlantic Coastal	Ocean City
Atlantic Coastal	Hammononton
Atlantic Coastal	Pleasantville
Atlantic Coastal	Wildwood
Northeast	Scranton
Clarksburg	Clarksburg
Clarksburg	Morgantown
Charleston	Charleston
Charleston	Parkersburg

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.5 IP (Internet Protocol) Routing Service (Cont'd)

16.5.3 Terms and Conditions (Cont'd)

- (C) IPRS is available on a month-to-month basis and for commitment periods of 3 years and 5 years.
- (D) Month-to-month service is subject to a minimum service period of 12 months.
- (E) Customers electing a 3-year or 5-year term must also select a minimum port volume for the service period.
- (F) IPRS is provided on a negotiated service date interval.
- (G) IPRS is monitored and maintained 24 hours-a-day 7 days-a-week for trouble isolation and resolution.
- (H) The customer is responsible for purchasing an adequate quantity of ports to accommodate originating dial-up traffic, which is delivered to the selected IPRS hub(s) for aggregation and routing to the customer's host location. A Port Capacity Report, furnished by the Telephone Company, that indicates 100% utilization for 30 minutes or more during any one-week period will require the customer to augment their port capacity accordingly in the affected hub(s).

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.5 IP (Internet Protocol) Routing Service (Cont'd)

16.5.4 Rate Regulations

- A) All rate categories are billed monthly.
- B) Nonrecurring charges apply for the installation of each port as set forth in Section 16.5.6 following.

A conversion of service to a new commitment period of equal or greater length than the remainder of the existing term does not incur nonrecurring charges for the existing port.
- C) When the customer's commitment period ends, the rates associated with the quantity of ports installed under such commitment period will remain in effect.
- D) Termination liability applies when a port is disconnected prior to the end of the minimum service period or prior to the end of the selected commitment period. Liability is assessed as follows:

Month-to-Month Service: The customer is responsible for 100% of the monthly rates for the entire 12-month minimum service period.

3 and 5-Year Terms: The customer is responsible for 100% of the monthly rate for the first 12 months and 15% of the remaining monthly charges.

Termination liability is waived if a port is converted to another term of equal or greater value in revenue than the remainder of the present term.

Termination liability is waived when a customer replaces one port for another type and commits to a term of equal or greater value in revenue than the remainder of the current commitment. The replacement is subject to applicable nonrecurring charges.

If the customer's recurring rate increases, the customer may discontinue service without liability.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.4 Rate Regulations (Cont'd)

- (E) Customers with a 3-year or 5-year term commitment must order service with a volume commitment, enabling the customer to receive the discount applicable to the appropriate volume tier for the committed volume for all ports subscribed. Customers with this option and a 3-year term will have 12 months after the initial port installation to reach the committed port volume. Customers with a 5-year term who select this option will have 24 months after the initial port installation to reach the committed volume.

Six months after the end of the appropriate 12 or 24 month installation window, a review of the customer's account will be performed to verify that the committed volume level has been achieved. Rates will be adjusted accordingly based upon the number of ports in service.

Failure to achieve the guaranteed quantity of ports within the specified time frame will result in all ports being rerated to the applicable monthly rate for the quantity actually in service. In addition, a liability charge equal to the monthly rate per port at the guaranteed commitment level multiplied by the port shortfall (the difference between the committed volume and the actual number of ports in service) multiplied by 3 months will apply.

In the event the customer has exceeded the commitment level, and the number of ports in service qualifies for a lower monthly rate based upon the volume tier for that number of ports, all ports will be rerated to the new, lower monthly rate.

Customer account reviews will be performed semi-annually after the first review until the end of the commitment period.

- (F) Customers with a 3-year or 5-year term commitment may add additional ports at any time during the commitment period at the rates applicable for the term commitment and the volume commitment initially selected. All ports will therefore be subject to a common expiration date for service commitment.
- (G) IPRS ports must be purchased in increments of 23 ports, except where available as single port quantities.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.4 Rate Regulations (Cont'd)

(H) Upon receipt of a bona fide request from a customer for a port quantity in excess of 75,500 Ports, the Telephone Company will work cooperatively with the customer to develop a per port rate for the requested quantity. Once the per-port rate is developed and accepted by the customer, it will then be tariffed and made available to any other customers requesting that same port quantity.

(I) IPRS Reports

- (1) IPRS includes a text-based, preformatted Daily Capacity Report that includes all network elements and all items from the previous day. This report is provided to each IPRS customer each day via e-mail without charge.
- (2) Customers desiring additional reports may choose optional Customer Service Management (CSM) Reports. The Telephone Company will provide IPRS customers with traffic reports and the ability to access this traffic data in near real-time via web-based access. The following reports will be available to the IPRS customer:
 - (a) Total Connections, Analog and Digital
 - (b) Analog and Digital Ratio
 - (c) Calls Increment (Measuring total calls received in ten minute intervals)
 - (d) ISDN Connections
 - (e) Modem Connections (Measuring analog call connections)
 - (f) Seconds Increment (Measuring total duration in seconds for a specific period of time)
 - (g) Weekly Maximum for Total Connections, Analog and Digital

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.5 IP (Internet Protocol) Routing Service (Cont'd)

16.5.4 Rate Regulations (Cont'd)

(I) IPRS Reports (Cont'd)

- (3) Customers opting for the CSM Reports will have the ability to display varying time periods for archived data, in varying intervals (i.e., several days, weeks, or months up to 12 months prior). CSM customers will also have the ability to view the output data graphically. Appropriate output may also be displayed illustrating Raw Data, Peaks, or Averages. Polling across the IPRS network for the CSM reports occurs in 10-minute intervals on average. Output data is not available for the most recent 24 hours prior to the query.
- (4) Recurring and Nonrecurring charges are based on a per-user access limited to six (6) IP addresses. The price entitles the customer to access the entire menu of available reports. Charges are assessed based on the size of the IPRS network (200 IPRS ports or less, or greater than 200 IPRS ports). If additional user access is needed, customers will be required to pay an additional appropriate monthly rate for each additional user access requested.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.5 IP (Internet Protocol) Routing Service (Cont'd)

16.5.5 Rate Categories

- A) Dial-up Port: Provides one data path connection in a local calling area of the company designated by the customer for analog/ISDN dial-up access to the customer by the customer's end users, and the IP routing of the end user data to the customer.
- B) IPRS DS1/1.544 Mbps Port*: Provides connection and IP routing of end user data terminated over dedicated private line facilities at a speed of 1.544 Mbps. (C)

* Effective September 15, 2001, these ports will no longer be available for new service requests (N)
(N)

(This page filed under Transmittal No. 88)

Issued: August 31, 2001

Effective: September 15, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.6 Rates and Charges
- per port

A) Dial-up Port

<u>Port Category</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
<u>Month-to-Month</u>				
Up to 75,500 Ports	PRLA6			
N-MSA		\$56.00	\$35.00	(T)
Price Band 4		56.00	35.00	(N)
Price Band 5		56.00	35.00	
Price Band 6		56.00	35.00	(N)
Over 75,500 Ports		See 16.5.4 (H) preceding		
<u>3-year Term</u>				
Up to 9,660 Ports	PRLJ2			
N-MSA		39.00	0.00	(T)
Price Band 4		39.00	0.00	(N)
Price Band 5		39.00	0.00	
Price Band 6		39.00	0.00	(N)
Up to 16,100 Ports	PRLJ3			
N-MSA		38.00	0.00	(T)
Price Band 4		38.00	0.00	(N)
Price Band 5		38.00	0.00	
Price Band 6		38.00	0.00	(N)
Up to 32,200 Ports	PRLJ4			
N-MSA		37.00	0.00	(T)
Price Band 4		37.00	0.00	(N)
Price Band 5		37.00	0.00	
Price Band 6		37.00	0.00	(N)
Up to 48,300 Ports	PRLJ5			
N-MSA		36.00	0.00	(T)
Price Band 4		36.00	0.00	(N)
Price Band 5		36.00	0.00	
Price Band 6		36.00	0.00	(N)
Up to 64,400 Ports	PRLJ6			
N-MSA		34.00	0.00	(T)
Price Band 4		34.00	0.00	(N)
Price Band 5		34.00	0.00	
Price Band 6		34.00	0.00	(N)
Up to 75,500 Ports	PRLJ8			
N-MSA		32.00	0.00	(T)
Price Band 4		32.00	0.00	(N)
Price Band 5		32.00	0.00	
Price Band 6		32.00	0.00	(N)
Over 75,500 Ports		See 16.5.4 (H) preceding		

Material formerly shown on this page now appears on Page 16-65.1.

(This page filed under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.6 Rates and Charges (Cont'd)
- per port

A) Dial-up Port (Cont'd)

<u>Port Category</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	(M)
<u>5-Year Term</u>				
Up to 9,660 Ports	PRLQ2			(M)
N-MSA		\$36.00	\$0.00	(T)
Price Band 4		36.00	0.00	(N)
Price Band 5		36.00	0.00	
Price Band 6		36.00	0.00	(N)
Up to 16,100 Ports	PRLQ3			(M)
N-MSA		35.00	0.00	(T)
Price Band 4		35.00	0.00	(N)
Price Band 5		35.00	0.00	
Price Band 6		35.00	0.00	(N)
Up to 32,200 Ports	PRLQ4			(M)
N-MSA		34.00	0.00	(T)
Price Band 4		34.00	0.00	(N)
Price Band 5		34.00	0.00	
Price Band 6		34.00	0.00	(N)
Up to 48,300 Ports	PRLQ5			(M)
N-MSA		33.00	0.00	(T)
Price Band 4		33.00	0.00	(N)
Price Band 5		33.00	0.00	
Price Band 6		33.00	0.00	(N)
Up to 64,400 Ports	PRLQ6			(M)
N-MSA		31.00	0.00	(T)
Price Band 4		31.00	0.00	(N)
Price Band 5		31.00	0.00	
Price Band 6		31.00	0.00	(N)
Up to 75,500 Ports	PRLQ8			(M)
N-MSA		29.00	0.00	(T)
Price Band 4		29.00	0.00	(N)
Price Band 5		29.00	0.00	
Price Band 6		29.00	0.00	(N)
Over 75,500 Ports		See 16.5.4(H) preceding		(N)

Certain material on this page previously appeared on Page 16-65.

(This page filed under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

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ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.6 Rates and Charges (Cont'd)
- per port

B) DS-1 (1.544Mbps)*		(C)	
<u>Port Category</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>
Month-to-Month	PRL1X		
N-MSA		\$175.00	\$200.00
Price Band 4		175.00	200.00
Price Band 5		175.00	200.00
Price Band 6		175.00	200.00
3-Year Term	PRLPX		
N-MSA		165.00	0.00
Price Band 4		165.00	0.00
Price Band 5		165.00	0.00
Price Band 6		165.00	0.00
5-Year Term	PRLVX		
N-MSA		150.00	0.00
Price Band 4		150.00	0.00
Price Band 5		150.00	0.00
Price Band 6		150.00	0.00

* Effective September 15, 2001, these ports will no longer be available (N)
for new service requests. (N)

CSM Reports

C) IPRS Networks of 200 IPRS Ports or Less			
Per user	F5R1R		
N-MSA		50.00	100.00
Price Band 4		50.00	100.00
Price Band 5		50.00	100.00
Price Band 6		50.00	100.00
D) IPRS Networks of Greater Than 200 IPRS Ports			
Per user	F5R2R		
N-MSA		350.00	500.00
Price Band 4		350.00	500.00
Price Band 5		350.00	500.00
Price Band 6		350.00	500.00

(This page filed under Transmittal No. 88)

Issued: August 31, 2001

Effective: September 15, 2001

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